

REMARKS

Summary of the Office Action

Claims 1-11 are pending in the application.

Claims 9 and 10 are rejected under 35 U.S.C. § 103 as being unpatentable over Martens et al (U.S. Patent No. 6,157,677) in view of Hu (U.S. Patent No. 5,748,247).

This rejection is respectfully traversed.

Discussion of the Rejection of Claims 9-10

In rejecting claim 9, the Examiner refers to portions of Martens et al as disclosing each of the claimed features, except that the admits that Martens et al does not specifically disclose determining an activity model, which maximizes the probability between activity models and the video frame. The Examiner, however, states that Hu teaches refinement of motion vectors, and that an activity model has been used to maximize the probability that the derived motion vector field represents the truth as a commotion (recognized activity). The Examiner cites column 2, lines 33-38 of Hu for distinction.

Applicant submits that the applied references, taken either alone or in combination, fail to teach or suggest the step (c) of claim 9, and at least for this reason fail to render obvious the invention defined by claim 9.

In more detail, step (c) recites: “determining an activity model, which maximizes the probability between activity models and a video frame provided from a given video model dictionary using a transition matrix for the determined state, as the recognized activity.” In

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rejecting claim 9, the Examiner refers to the Martens et al Abstract, column 13, lines 59-67 and column 14, lines 1-12 as teaching determining an activity model which enhances the probability between activity models and video frame using a transition matrix for the determined state, as a recognized activity.

This portion of Martens et al, however, does not teach or suggest anything with respect to the claimed feature of the given activity model dictionary. That is, Martens et al does not teach or suggest maximizing, or even enhancing, the probability between activity models and a video frame provided from a given activity model dictionary. The portions of Martens et al cited by the Examiner relate to correcting for systematic intensity changes that would otherwise impede the motion estimation so that the probability of erroneously modeling motion effects in the intensity domain is minimized. There is no teaching or suggestion of maximizing or enhancing the probability between activity models and a video frame provided from a given activity model dictionary using a transition matrix for the determined state.

Applicant does not believe that Hu makes up for this deficiency in the teachings of Martens et al.

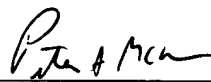
With respect to claim 10, Applicant submits that this claim is patentable at least by virtue of its dependence from claim 9.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

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The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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